

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/564,981
Source: JFWP
Date Processed by STIC: 1-27-06

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IFWP

RAW SEQUENCE LISTING

DATE: 01/27/2006

PATENT APPLICATION: US/10/564,981

TIME: 09:58:38

Input Set : A:\13150-70090US.ST25.txt

Output Set: N:\CRF4\01272006\J564981.raw

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3 <110> APPLICANT: MINERVA BIOTECHNOLOGIES CORPORATION
4   Bamdad, Cynthia C
6 <120> TITLE OF INVENTION: METHODS FOR DIAGNOSIS AND TREATMENT OF CANCER
8 <130> FILE REFERENCE: 13150-70090US
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/564,981
C--> 10 <141> CURRENT FILING DATE: 2006-01-13
10 <150> PRIOR APPLICATION NUMBER: US 09/996,069
11 <151> PRIOR FILING DATE: 2001-11-27
13 <150> PRIOR APPLICATION NUMBER: US 10/237,150
14 <151> PRIOR FILING DATE: 2002-09-05
16 <150> PRIOR APPLICATION NUMBER: US 10/236,863
17 <151> PRIOR FILING DATE: 2002-09-05
19 <150> PRIOR APPLICATION NUMBER: PCT/US2004/027954
20 <151> PRIOR FILING DATE: 2004-08-26
22 <150> PRIOR APPLICATION NUMBER: US 60/610,038
23 <151> PRIOR FILING DATE: 2004-09-14
25 <150> PRIOR APPLICATION NUMBER: PCT/US2005/032821
26 <151> PRIOR FILING DATE: 2005-09-14
28 <160> NUMBER OF SEQ ID NOS: 29
30 <170> SOFTWARE: PatentIn version 3.3
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35 <213> ORGANISM: Homo sapiens
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43 Thr Glu Ala Ala Ser Pro Tyr Asn Leu Thr Ile Ser Asp Val Ser Val
44      20      25      30
47 Ser His His His His His His
48      35
51 <210> SEQ ID NO: 2
52 <211> LENGTH: 51
53 <212> TYPE: PRT
54 <213> ORGANISM: Homo sapiens
56 <400> SEQUENCE: 2
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59 1      5      10      15
62 Thr Glu Ala Ala Ser Pro Tyr Asn Leu Thr Ile Ser Asp Val Ser Val
63      20      25      30
66 Ser Asp Val Pro Phe Pro Phe Ser Ala Gln Ser Gly Ala His His His
67      35      40      45
70 His His His

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74 <210> SEQ ID NO: 3
75 <211> LENGTH: 54
76 <212> TYPE: PRT
77 <213> ORGANISM: Homo sapiens
79 <400> SEQUENCE: 3
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82 1      5      10      15
85 Val Glu Thr Gln Phe Asn Gln Tyr Lys Thr Glu Ala Ala Ser Pro Tyr
86      20      25      30
89 Asn Leu Thr Ile Ser Asp Val Ser Val Ser Asp Val Pro Phe Pro Phe
90      35      40      45
93 His His His His His His
94      50
97 <210> SEQ ID NO: 4
98 <211> LENGTH: 31
99 <212> TYPE: PRT
100 <213> ORGANISM: Homo sapiens
102 <400> SEQUENCE: 4
104 His His His His His His Gly Phe Leu Gly Leu Ser Asn Ile Lys Phe
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108 Arg Pro Gly Ser Val Val Val Gln Leu Thr Leu Ala Phe Arg Glu
109      20      25      30
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113 <211> LENGTH: 46
114 <212> TYPE: PRT
115 <213> ORGANISM: Homo sapiens
117 <400> SEQUENCE: 5
119 Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala His Gly
120 1      5      10      15
123 Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala Pro
124      20      25      30
127 Pro Ala His Gly Val Thr Ser Ala His His His His His His
128      35      40      45
131 <210> SEQ ID NO: 6
132 <211> LENGTH: 33
133 <212> TYPE: PRT
134 <213> ORGANISM: Homo sapiens
136 <400> SEQUENCE: 6
138 Gly Thr Ile Asn Val His Asp Val Glu Thr Gln Phe Asn Gln Tyr Lys
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143      20      25      30
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151 <211> LENGTH: 45
152 <212> TYPE: PRT
153 <213> ORGANISM: Homo sapiens
155 <400> SEQUENCE: 7

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157 Gly Thr Ile Asn Val His Asp Val Glu Thr Gln Phe Asn Gln Tyr Lys
158 1 5 10 15
161 Thr Glu Ala Ala Ser Pro Tyr Asn Leu Thr Ile Ser Asp Val Ser Val
162 20 25 30
165 Ser Asp Val Pro Phe Pro Phe Ser Ala Gln Ser Gly Ala
166 35 40 45
169 <210> SEQ ID NO: 8
170 <211> LENGTH: 25
171 <212> TYPE: PRT
172 <213> ORGANISM: Homo sapiens
174 <400> SEQUENCE: 8
176 Gly Phe Leu Gly Leu Ser Asn Ile Lys Phe Arg Pro Gly Ser Val Val
177 1 5 10 15
180 Val Gln Leu Thr Leu Ala Phe Arg Glu
181 20 25
184 <210> SEQ ID NO: 9
185 <211> LENGTH: 40
186 <212> TYPE: PRT
187 <213> ORGANISM: Homo sapiens
189 <400> SEQUENCE: 9
191 Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala His Gly
192 1 5 10 15
195 Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala Pro
196 20 25 30
199 Pro Ala His Gly Val Thr Ser Ala
200 35 40
203 <210> SEQ ID NO: 10
204 <211> LENGTH: 1255
205 <212> TYPE: PRT
206 <213> ORGANISM: Homo sapiens
208 <400> SEQUENCE: 10
210 Met Thr Pro Gly Thr Gln Ser Pro Phe Phe Leu Leu Leu Leu Thr
211 1 5 10 15
214 Val Leu Thr Val Val Thr Gly Ser Gly His Ala Ser Ser Thr Pro Gly
215 20 25 30
218 Gly Glu Lys Glu Thr Ser Ala Thr Gln Arg Ser Ser Val Pro Ser Ser
219 35 40 45
222 Thr Glu Lys Asn Ala Val Ser Met Thr Ser Ser Val Leu Ser Ser His
223 50 55 60
226 Ser Pro Gly Ser Gly Ser Ser Thr Thr Gln Gly Gln Asp Val Thr Leu
227 65 70 75 80
230 Ala Pro Ala Thr Glu Pro Ala Ser Gly Ser Ala Ala Thr Trp Gly Gln
231 85 90 95
234 Asp Val Thr Ser Val Pro Val Thr Arg Pro Ala Leu Gly Ser Thr Thr
235 100 105 110
238 Pro Pro Ala His Asp Val Thr Ser Ala Pro Asp Asn Lys Pro Ala Pro
239 115 120 125
242 Gly Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser Ala Pro Asp Thr
243 130 135 140

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246 Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser
247 145          150          155          160
250 Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala His
251          165          170          175
254 Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala
255          180          185          190
258 Pro Pro Ala His Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro
259          195          200          205
262 Gly Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser Ala Pro Asp Thr
263          210          215          220
266 Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser
267 225          230          235          240
270 Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala His
271          245          250          255
274 Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala
275          260          265          270
278 Pro Pro Ala His Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro
279          275          280          285
282 Gly Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser Ala Pro Asp Thr
283          290          295          300
286 Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser
287 305          310          315          320
290 Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala His
291          325          330          335
294 Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala
295          340          345          350
298 Pro Pro Ala His Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro
299          355          360          365
302 Gly Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser Ala Pro Asp Thr
303          370          375          380
306 Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser
307 385          390          395          400
310 Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala His
311          405          410          415
314 Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala
315          420          425          430
318 Pro Pro Ala His Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro
319          435          440          445
322 Gly Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser Ala Pro Asp Thr
323          450          455          460
326 Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser
327 465          470          475          480
330 Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala His
331          485          490          495
334 Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala
335          500          505          510
338 Pro Pro Ala His Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro
339          515          520          525
342 Gly Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser Ala Pro Asp Thr

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343      530      535      540
346 Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser
347 545      550      555      560
350 Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala His
351      565      570      575
354 Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala
355      580      585      590
358 Pro Pro Ala His Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro
359      595      600      605
362 Gly Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser Ala Pro Asp Thr
363      610      615      620
366 Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser
367 625      630      635      640
370 Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala His
371      645      650      655
374 Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala
375      660      665      670
378 Pro Pro Ala His Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro
379      675      680      685
382 Gly Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser Ala Pro Asp Thr
383      690      695      700
386 Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser
387 705      710      715      720
390 Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala His
391      725      730      735
394 Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala
395      740      745      750
398 Pro Pro Ala His Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro
399      755      760      765
402 Gly Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser Ala Pro Asp Thr
403      770      775      780
406 Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser
407 785      790      795      800
410 Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala His
411      805      810      815
414 Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala
415      820      825      830
418 Pro Pro Ala His Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro
419      835      840      845
422 Gly Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser Ala Pro Asp Thr
423      850      855      860
426 Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser
427 865      870      875      880
430 Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala His
431      885      890      895
434 Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala
435      900      905      910
438 Pro Pro Ala His Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro
439      915      920      925

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VERIFICATION SUMMARY

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DATE: 01/27/2006

TIME: 09:58:39

Input Set : A:\13150-70090US.ST25.txt

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L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date